

USYRU MHS AMENDED MARCH 1985

RATING CERTIFICATE# 17290
BASED ON CLUB MEASUREMENT

YACHT: NEVERMORE
SAIL#: US-32235
CLASS: TAR372

NOT VALID AFTER 12/85

37' SLOOP BY S&S
STD MASTHEAD RIG, 152% JIB
97 CENTERBOARD
EXPOSED, FOLDING PROP

I CERTIFY THAT I UNDERSTAND MY
RESPONSIBILITIES UNDER THE MHS.

OWNER: *Eliot H Brown*

MR ELIOT H BROWN
1249 E JERICHO TPK
HUNTINGTON NY 11743

-LOCATIONS FROM STEM/WEIGHT-
-ANCHORS-----BALLAST-----BATTERIES
(1) 0/ 0 (1) 0/ 0 (1) 0/ 0
(2) 0/ 0 (2) 0/ 0 (2) 0/ 0
(3) 0/ 0 (3) 0/ 0 (3) 0/ 0

-----CENTERBOARD-----COMMENTS-----
KCDA .000 SPECIFIC GRAVITY = 1.020.
ECM .000
WATER SG .000

-----FREEBOARDS-----PROP INSTALLATION-----
FF 4.510 FFD 4.230 PSA 24.000 PHD1 .150 PHD2 .000 APH .000
FA 3.230 FAD 3.280 PHL .590 PSD .080 SHL .340 APT .000
FGOC 2.933 LBGC 32.680 PSL 1.950 SHD .160 PRD .000 APB .000

-----FORETRIANGLE-----MAINSAIL-----MAST-----
IM 47.350 SPL 12.580 P 41.810 BL1 .000 MDT1 .460
J 16.000 SPS .000 E 12.020 BL2 .000 MDL1 .730
LPG 24.000 SL 47.200 BAS 4.420 BL3 .000 MDT2 .460
LPIS .000 SMW 28.800 BAL .000 BL4 .000 MDL2 .730
FSP .280 HBS .000 BD .000 BL5 .000 TL .000
LP 24.280 TCI .000 HB .000 BLP 8.360 HBI 3.698
FBI .000 SFS .000 MW .000 MGU .000 PC 41.810
IG 47.250 ISP 47.350 GO .000 MGM .000 EC 12.020

-----MIZZEN-----
IY .000 PY .000 BY1 .000 MDT1Y .000 HBY .000
EB .000 EY .000 BY2 .000 MDL1Y .000 BLPY .000
YSD .000 BADY .000 BY3 .000 MDT2Y .000 HBIY 3.662
YSF .000 BALY .000 BY4 .000 MDL2Y .000 PYC .000
YSMG .000 BDY .000 BY5 .000 TLY .000 EYC .000

--- TIME ALLOWANCES ---
IN SECONDS PER MILE | TRUE WIND WINDWD/ OLYMPIC CIRCULAR LINEAR NON-
GENERAL PURPOSE | WIND LEeward (6-LEG) RANDOM RANDOM SPIN-
(LINEAR RANDOM 10) | | | | | | NAKER
|-----|-----|-----|-----|-----|-----|
| 8 KT: 944.6 890.5 714.4 682.1 757.4
| 10 KT: 806.9 771.0 629.2 607.8 663.1
| 12 KT: 726.6 706.7 582.6 565.8 608.2
| 14 KT: 677.8 668.3 554.7 539.6 570.8
| 16 KT: 648.1 644.2 536.3 521.4 547.2

MEAS# 24 *John W. Wright* *Kenneth B. Weller*

MR DAVID MC CLAY MEASURED: 5/ 4/83 KENNETH B. WELLER
57 MAPLE AVENUE INP RCVD: 5/ 9/83 USYRU OFFSHORE
NORTHPORT NY 11768 ISSUED: 4/ 8/85 BOX 209
OTHER MEAS: MCCLAY FLOTAT*N: 0/ 0/ 0 NEWPORT, RI 02840
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CERT# 17290 SAIL# US-32235

RUN DATE: 4/ 8/85

INP RCVD: 5/ 9/83

YACHT: NEVERMORE

FORMER:

-----INCLINING TEST----- LIMIT OF
 NO INCLINING TEST PERFORMED-- POSITIVE
 CLUB RIGHTING MOMENT BASED ON STABILITY:
 CLASS STD VERTICAL CENTER OF RM2 942.8
 GRAVITY OF -.24 TO DATUM. RM20 880.1 121 DEGREES
 RM40 789.4

-----CALCULATED STABILITY-----
 HEEL IN DEGREES: 25 60 90 120 150 165
 RIGHT ARM IN FT: 1.159 1.956 1.437 .091 -1.036 -1.018
 RATIO OF STABILITY CURVE AREAS, POSITIVE/NEGATIVE = 3.609

-----MEASUREMENT TRIM-----
 KEEL DRAFT (DHK) 4.33 2ND MOMENT LGTH (LSM0) 30.97
 DISPLACEMENT (DISP) 16710 WETTED SURFACE (WS) 285.4
 SAIL AREA (SA) 641 PROP PROJ AREA (PIPA) .052
 MAXIMUM BEAM (MB) 11.66

-----SAILING TRIM (CREW & GEAR ABOARD)-----
 SECT AREA @ MAX (AMS1) 18.54 RATED BEAM (B) 9.66
 SECT AREA @ KEEL (ATEK) 2.01 BEAM/DEPTH (BTR) 3.46
 SECT AREA @ C/B (CBSA) 16.43 SINK FORWARD (SKF) -.11
 KEEL DRAFT (DHKA) 4.48 SINK AFT (SKA) .34
 CENTERBOARD EXT (ECMA) 3.50 WETTED SURF (WS) 297.7
 REDUCED DRAFT (D) 5.13 DISPLACEMENT (DISP) 18462

2ND MOMENT LENGTHS: 0 DEG HEEL (LSM1) 31.02
 2 DEG HEEL (LSM2) 31.02
 AVG LENGTH (L) 30.43 25 DEG HEEL (LSM3) 30.47
 SUNK CONDITION (LSM4) 33.23

THE CREW LIMIT FOR THIS YACHT, IF IMPOSED, IS 9 PERSONS

-----SPEED AS A FUNCTION OF SAILING CONDITION-----

OPTIMUM BEAT					OPTIMUM RUN		
VTW	BTW	V	VMG	HEEL	BTW	V	VMG
8	46	5.103	3.529	11	144	5.126	4.142
10	46	5.792	4.035	17	147	5.923	4.989
12	44	6.012	4.359	20	161	6.067	5.740
14	42	6.143	4.558	23	168	6.498	6.362
16	41	6.230	4.680	25	172	6.899	6.832
20	41	6.336	4.782	28	174	7.593	7.556

VTW	REACH BTW = 80		REACH BTW = 110		REACH BTW = 135		RUN BTW=180
	V	HEEL	V	HEEL	V	HEEL	V
8	6.431	15	6.575	7	5.710	2	3.846
10	6.885	12	7.080	11	6.560	3	4.709
12	7.210	16	7.438	16	7.061	4	5.537
14	7.443	21	7.709	21	7.456	5	6.282
16	7.610	26	7.916	26	7.794	7	6.792
20	7.807	32	8.211	33	8.377	12	7.530